NC/PMC/PD/MW-13/2018-19/CW-C1 Date: 16-08-2018

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Construction of compound wall and other devolopment works at Shettihalli Subdivision office in Mallasandra,Ward No-13.}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Gnanendra murthy M.D.

PHYSICAL TESTS ON CEMENT

Brand : RAMCO
Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**168 min**	Shall not be less than 30 min
2	Final setting time	**275 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**2.19 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**2.06 mm**	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	**29.42 N/Sq mm**	Shall not be less than 27 N/Sqmm

Asst. Executive Engineer
Project Sub Division-I
Dasarahalli Zone,
Bruhat Bengaluru Mahanagara Palike

For Newzen Consultants Bangalore
Proprietor

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NC/PMC/PD/MW-13/2018-19/CW-PCC1 Date: 16-08-2018

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for M-10 grade concrete .
{Project*: Construction of compound wall and other devolopment works at Shettihalli Subdivision office in Mallasandra,Ward No-13.}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Gnanendra murthy M.D.

1. COARSE AGGRGATES Table - SIEVE ANALYSIS :

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	97.15	85-100	95 – 100
20mm	54.60	0 -20	30- 70
10mm	23.90	0 -5	10- 35
4.75mm	4.10	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS :

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone –III	
04.75	98.45	90-100	90-100	90-100	The Sample Conforms to Grading Zone-II
02.36	86.75	60-95	75-100	85-100	
01.18	65.90	30-70	55-90	75-100	
600. mic	45.05	15-34	35-59	60-79	
300.mic	24.70	5-20	8-30	12-40	
150.mic	7.10	0-10	0-10	0-10	

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NC/PMC/PD/MW-13/2018-19/CW-C2

Date: 27-08-201

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Construction of compound wall and other devolopment works at Shettihalli Subdivision office in Mallasandra,Ward No-13.}
Ref.: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Gnanendra murthy M.D.

PHYSICAL TESTS ON CEMENT

Brand : RAMCO
Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**164 min**	Shall not be less than 30 min
2	Final setting time	**275min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**1.86 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**2.32 mm**	Shall not be more than 10 mm
5	Compressive strength b) 3 days (average of three results)	**29.58 N/Sq mm**	Shall not be less than 27 N/Sqmm

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NC/PMC/PD/MW-13/2018-19/CW-FA1 Date: 27-08-2018

1. TESTING OF FINE AGGREGATES :

Sub: Testing of Fine Aggregates.

{Project*: Construction of compound wall and other devolopment works at Shettihalli Subdivision office in Mallasandra,Ward No-13.}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Gnanendra murthy M.D.

TABLE - 1.1 : SIEVE ANALYSIS :

IS Sieve Size,mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -II	
04.75	**97.45**	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	**86.10**	60-95	75-100	85-100	
01.18	**75.90**	30-70	55-90	75-100	
600. mic	**44.05**	15.34	35-59	60-79	
300.mic	**24.60**	5-20	8-30	12-40	
150.mic	**8.45**	0-10	0-10	0-10	

TABLE 1.2 ;

Sl No	Test Conducted	Sample	Results	**Requirements** as Per IS. Specification IS :383-1970 (Reaffirmed 2002)
1	Bulking of Sand	001	**16.78 %**	-----
2	Silt Content	----	**0.62 %**	Not more than 8%
3	Specific Gravity	----	**2.62**	-------

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NC/PMC/PD/MW-13/2018-19/CW-CA1 Date: 27-08-2018

1. TESTING OF COARSE AGGREGATES (20 mm):

Sub: Testing of Construction Materials.
{Project*: Construction of compound wall and other devolopment works at Shettihalli Subdivision office in Mallasandra,Ward No-13.}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Gnanendra murthy M.D.

Table - 1.1 : SIEVE ANALYSIS :

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2002) % Passing	
	20 mm Sample	Single size	Graded
40 mm	100.00	100.00	100.00
20 mm	97.20	85-100	90 - 100
10 mm	45.90	0 - 20	25 - 55
4.75 mm	4.05	0 - 5	0 - 10

TABLE 1.2 :

SL No	Test conducted	Results	Requirements as per IS:383-1970 & Tests Conforms to IS 2386(Part I to IV) – 1963 (Reaffirmed on 2002)
1.	Flakiness Index	22.78 %	Not to exceed 25 %
2.	Crushing value	27.35 %	Not to exceed 45 % for concrete other than for wearing surfaces and 30% for concrete for wearing surfaces

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NC/PMC/PD/MW-13/2018-19/CW-CB1A

Date: 26-09-2018

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).

{Project*: Construction of compound wall and other devolopment works at Shettihalli Subdivision office in Mallasandra,Ward No-13.}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Gnanendra murthy M.D.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	29-08-18	26-09-18	28	22500	505	22.44	**22.59**
	002	"	"	"	"	520	23.11	
	003	"	"	"	"	500	22.22	

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NC/PMC/PD/MW-13/2018-19/CW-8B1 Date: 12-10-2018

1. TEST REPORT ON PRE –CAST SOLID BLOCKS;

Sub: Testing of Pre-Cast Solid Block- Compressive strength.
{Project*: Construction of compound wall and other devolopment works at Shettihalli Subdivision office in Mallasandra,Ward No-13.}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Gnanendra murthy M.D.

RESULTS OF COMPRESSIVE STRENGTH ON PRE CAST(Solid Blocks) BLOCK SPECIMENS

TABLE 1. 1:

Sl No.	Dimensions of Specimen mm	Details	Cross Sectional Area mm^2	Maximum Load in KN	Compressive Strength N/mm^2	Average Compressive Strength N/mm^2
1	400 X 200 X 200	Solid	80000	435	5.44	5.63
2	"	"	80000	455	5.69	
3	"	"	80000	460	5.75	

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